

## **Electronic Lock Control and Sensor Module for a Wireless System**

### **Abstract of the Disclosure**

A lock system includes a cylindrical door lock having a latching spindle and an opening spindle which are concentrically oriented, and a wireless communication system to transmit signals indicating the relative positions of the latching spindle and the opening spindle. A door lock assembly can include a lock mechanism for placing the lock assembly into an unlocked state or a locked state, an electrically controlled actuator assembly to control the lock mechanism, a transceiver coupled to the actuator assembly, and a communication device to communicate over a two-way wireless network with the electrically controlled actuator. A retrofit actuator assembly adapted to be mounted on an existing lock to control a locking mechanism of the lock, and a two-way communication device to control the retrofit actuator assembly and to receive signals from the retrofit actuator assembly indicating a state of the locking mechanism.

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